



GLOBAL EXTECHNOLOGY

# VISUEx

## PCEX 410

**PCEX 410, the panel PC with **ETHERNET** network interface**

The panel PC for the hazardous area in the chemical, pharmaceutical  
and petrochemical industries



VISUEX PCEX 410



TASTEX extension keyboard

## VISUEX PCEX 410 panel PC for hazardous areas with **ETHERNET** network interface

*ETHERNET today is a proven, widely used communication medium that is also universally suitable for automation applications. Featuring a standard ETHERNET interface, the PCEX 410 reflects this market trend. Remote I/Os from leading manufacturers can now be operated directly via the PCEX 410 system, enabling automated plant in the chemical, pharmaceutical and petrochemical industries to be configured more easily and more efficiently than in the past.*

The open architecture of the PCEX 410 panel PC fits it for practically any kind of application. As a PLC visualization system, a network terminal, a soft PLC, a web terminal, a network client or a stand-alone solution with remote I/O modules in the hazardous area for Zones 1 and 2 or Zones 21 and 22 – the potential constellations are almost unlimited.

Optional connections can of course also be provided for an Exi barcode reader (cable or radio-operated). Pay a visit to the SCANEX page at [www.extec.de](http://www.extec.de).

### ► Features/advantages

#### ► Powerful hardware platform

- ETHERNET network interface: 10/100 MHz
- LCD monitor: 10.4", 800 x 600 pixels
- 20 GB hard disk, 512 MB RAM
- High-speed PC processor
- Exe terminal blocks for the following interfaces: ETHERNET, RS485, TTY
- Panel-mounting case, stainless steel wall-mounting case (IP 54) available as an option
- Touchscreen as standard
- On-screen keyboard
- 61 short-travel keys (alphanumeric keyboard, 24 function keys, incl. 12 freely programmable)
- Numeric block
- Integrated mouse buttons
- No additional components required in the safe area
- Certified for Zone 1, no complex Exp technology required

#### ► Software

- Operating system: Windows XP Professional Embedded already installed
- Open platform for customer-specific visualization software (ProTool/Pro, Wonderware, Intellution, Cimplicity, Sitec, Zenon, Movicon, etc.)
- Unparalleled application flexibility, e.g.:  
Operator terminal, visualization system, soft-PLC, web-terminal, client server applications
- Operating system language selectable
- User software can be installed either via a USB-CD ROM in the safe area or alternatively via an ETHERNET network interface in the hazardous or safe area

#### ► Options:

- Direct connections for:  
Exi hand-held barcode reader, Exi radio barcode reader, Exi min-scanner, Exi keyboard, Exi mouse
- Customized version in special case e.g. with emergency stop button, key-operated switch or indicator lights



**ATEX**  
CERTIFIED  
**ETHERNET**



VISUEX PCEX 410



Holder for EX-Dragon Exi barcode reader



VISUEX PCEX 410 in stainless steel wall-mounting case

## VISUEX PCEX 410 panel PC

Typical applications:

### ► Operator terminal connected to a PLC system

Features:

- Point-to-point connection to the PLC via an RS485 or TTY interface
- Commercial visualization system on PCEX 410
- Exi barcode reading system

### ► Visualization station connected to a corporate network and PLC

Features:

- Connection to corporate network via ETHERNET
- SCADA visualization system on PCEX 410
- PLC connected via gateway ETHERNET / fieldbus or TTY/RS485 interface
- Exi keyboard

### ► Soft PLC connected to remote I/O modules

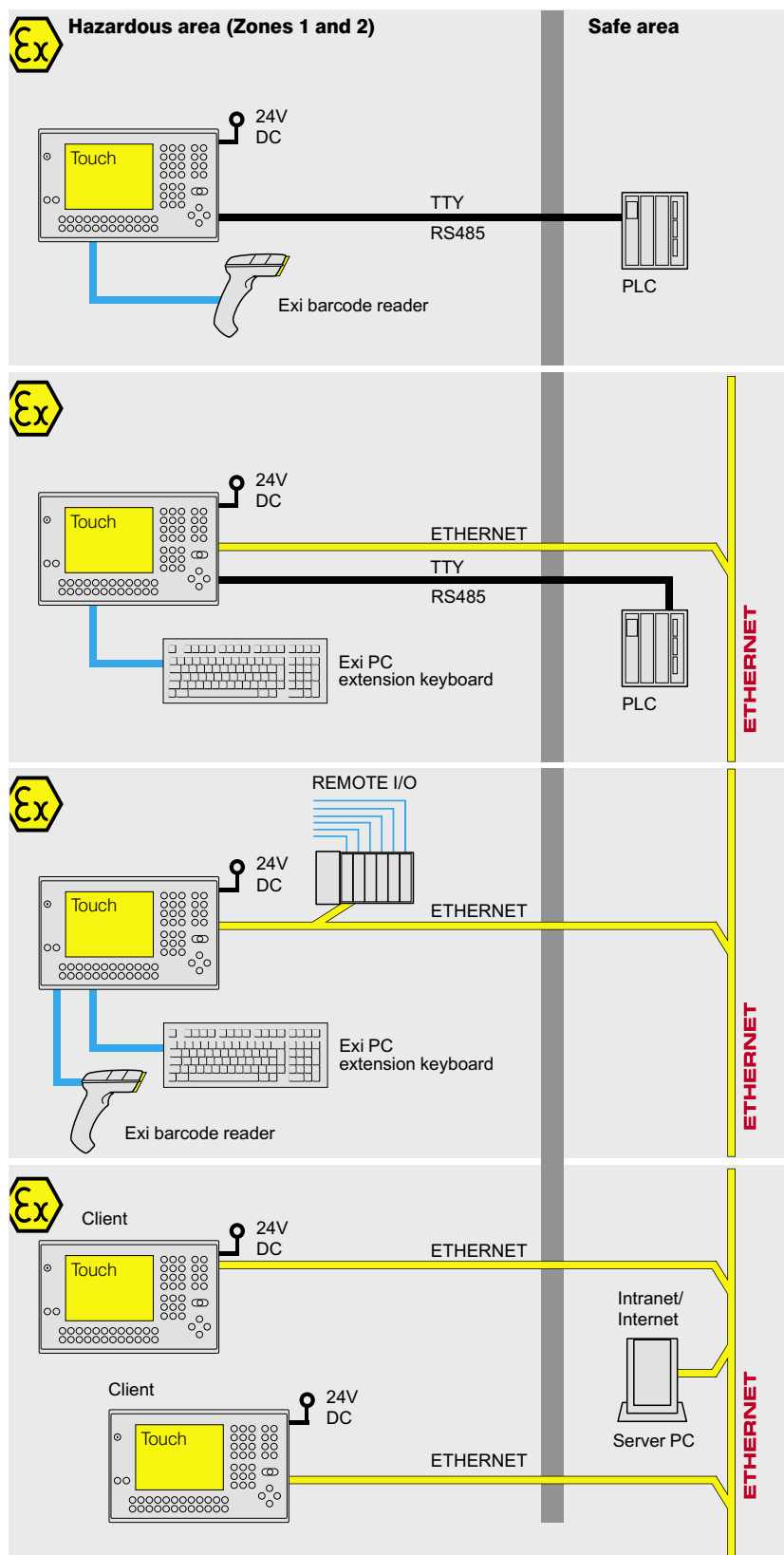
Features:

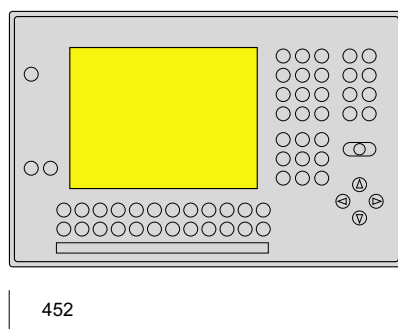
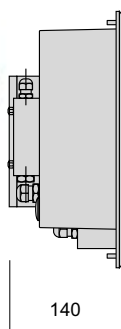
- Remote I/O module in Zone 2 connected via ETHERNET interface
- Connection to corporate network via ETHERNET
- SCADA soft-PLC and visualization system on PCEX 410
- Exi barcode reading system
- Exi keyboard

### ► Client-server application or web terminal

Features:

- Client application, e.g. SCADA system on PCEX 410 panel-PC
- Server connected via ETHERNET or
- Browser application on PCEX 410
- Server connected via intranet/internet





295

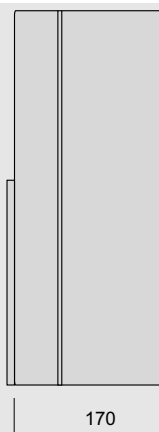
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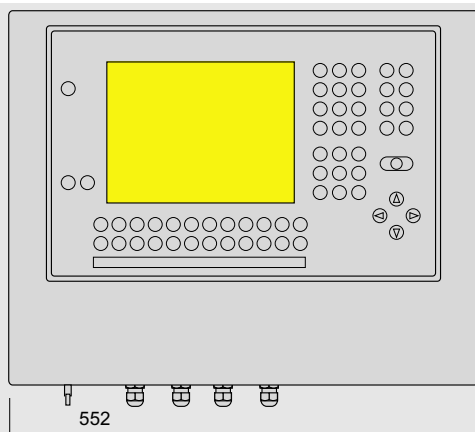
PCEX 410, panel-mounting case

## PCEX 410

Technical data



170



440

PCEX 410, stainless steel wall-mounting case

### Display

|                    |                            |
|--------------------|----------------------------|
| Screen diagonal    | 10.4"                      |
| Display type       | LCD, TFT                   |
| Brightness         | min. 200 cd/m <sup>2</sup> |
| Contrast           | 300:1                      |
| Touchscreen        | Resistive                  |
| Display resolution | 800 x 600 pixels           |
| Colours            | 262.144                    |
| Graphic memory     | 32 MB                      |

### PC system

|                                  |                                          |
|----------------------------------|------------------------------------------|
| Operating system                 | Windows XP Professional Embedded         |
| Alternatives                     | Linux, Unix, other systems also possible |
| CPU                              | 400 MHz, fanless                         |
| RAM                              | 512 MB                                   |
| Hard disk                        | 20 GB                                    |
| Exe interfaces (terminal blocks) | ETHERNET, RS485, TTY, (USB)              |
| Exi interfaces (terminal blocks) | 1x Exi barcode reader (serial)           |
|                                  | 2x PS/2 (keyboard/mouse)                 |

### Input

|          |                                          |
|----------|------------------------------------------|
| Controls | Touchscreen                              |
|          | 24 function keys, 12 LEDs                |
|          | Numeric/alphanumeric inputs              |
|          | External Exi keyboard and mouse (TASTEX) |

### Ratings

|                           |                           |
|---------------------------|---------------------------|
| Supply voltage            | 24V DC to terminal blocks |
| Typical power consumption | 50 W                      |
| Ambient temperature       | 0 °C -40 °C               |

### Dimensions

|                                    |                                    |
|------------------------------------|------------------------------------|
| Front plate                        | Anodized aluminium, polyester foil |
| Dimensions (panel-mounting case)   | 452 x 295 x 140 mm (L x W x T)     |
| Dimensions (surface-mounting case) | 552 x 440 x 170 mm (L x W x T)     |

|                      |                              |
|----------------------|------------------------------|
| Explosion protection | Ex II 2 G, Zone 1 and Zone 2 |
|                      | EEx qe [ib] IIC T4           |
| Ex approval          | IBEXU 03 ATEX 1190           |
| Degree of protection | IP 65 (front)                |

### Accessories

|                                    |
|------------------------------------|
| USB CD-ROM, incl. connecting cable |
|------------------------------------|

**EXTEC products and services**  
Innovative and powerful

- VISUEX panel-PC
- iPC-EX
- Exi graphic terminals
- Exi text terminals (4 x 20 characters)
- Exi text displays
- Exi keyboards
- Exi weighing terminals (calibratable)
- Exi load cell evaluation unit
- Exi ASCII keyboards
- Exi barcode data acquisition systems
- Exp label printer
- Configuration for complete filling and metering stations
- Customizable software that adapts to existing system (PLC, PC, PCS, etc.)

- **EXTEC explosion protection technology**  
Electrical equipment, controls and apparatus components, production and sales.

- **EXTEC electronic product development**  
Development and production of electronic equipment, microprocessor systems, hardware and software.

- **ATEX**  
EXTEC quality system based on the requirements of EC Directive 94/9/EC.

- **CE** 0123



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**ON TOP**  
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# GLOBAL EXTECHNOLOGY VISUEx PCEX 410

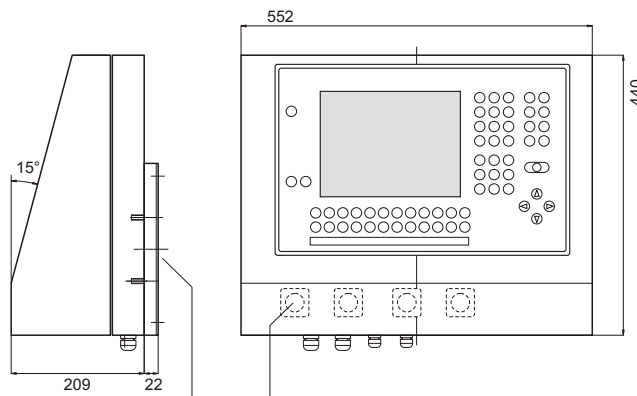
## VISUEx ABG-PCEX 410 Edelstahl-Gehäuse

Das Wandaufbaugehäuse aus Edelstahl für den Panel-PC PCEX 410  
Der Panel-PC für den Ex-Bereich in der Chemie, Pharmazie und Petrochemie

## VISUEx ABG-PCEX 410 Stainless Steel Housing

*The stainless steel housing for the Panel-PC PCEX 410*

*The panel PC for the hazardous area in the chemical, pharmaceutical and petrochemical industries.*



Wandhalter  
Wall Bracket

optional: Schalter, Taster, Meldeleuchten, ...  
option: switches, push buttons, alarm lights, ...

- ▶ Wandaufbau- Edelstahlgehäuse IP65
- ▶  $\text{Ex}$  II 2G EEx qe [ib] IIC T4
- ▶ Zone 1 und 2, Zone 21 und 22
- ▶ optional: Tisch-, Standfuß- und Tragarm-Ausführung
- ▶ weitere technische Daten im Visuex-Prospekt oder unter [www.extec.de](http://www.extec.de)

- ▶ Stainless Steel wall mount housing
- ▶  $\text{Ex}$  II 2G EEx qe [ib] IIC T4
- ▶ Zones 1 and 2, Zones 21 and 22
- ▶ Option: swivel arm or pole mount available
- ▶ further technical details see VISUEx main brochure and [www.extec.de](http://www.extec.de)



**ATEX**  
ZERTIFIZIERT